			·																							
										us	-439063	8 E sam	ples vs (	Claim-I	of thus app	olication							e:Li	l:L	. <b>A</b> 24	003/2/14
US-4,390	638 E	amples		4	5	6	<del>_,</del> _	1 B 1	9	10	11	12	13	14	15	16	17	18	19	20	21	22	$\nu_{\gamma}$	D2: 1	25 1	Batch
B2O3	3.20	17.75	9.10	9.50	1295	10 25	9.80	7.85	11 45	12 50		11 60	11 35	11.35	7.75	8.10			11.25	9 80		6.90			11.40	11,25
5:02	34 80	18.60				22 BO			25 80					25.40	28.60	28.25		26 00	24.00						23.65	24.00
AI2OJ						5 10																				
GeO2																3.40	ļ		3.10	2.45	2 50	12 06	1,10	1.40	·	3,10
P205	2.07	1.80		1.30	4.75	1 45	7.10	1.45	1.50	1 50	1 40	2.90		1 40		1.45	145	1 45	0.70	0.75	1.50	2 22	2.30	1.45	1.45	0.70
N#20	0.70			12.10		3 00	2 30		3 10	3.10	2.90	3 00	5 90	1 40 3 00	4.45	3.00	3.00	3 00	4.50	3.10	3.15	3 07		3 00	3 00	4.50
K20	6.50		17.15			4.60	4 65	4 40	4 75	4 70	4 40		4.50	4.50	6.70	4.50		4 50	4.55	7.00	4.75	2.33		4.55	4 60	4,55
MaO	3 75		5 45		5 00	5.95	6 50		14.25	0 50	5 70	5.90	3 85	5 BO	3.85	3,90		4 40	2.90	6 00	7.15			5.90	6.95 24.50	2.90 18.30
CeO	11.90	15.70	17.00	16.30	14.90	16.50	16 00	19 60	7 05	24.75	7.90	11.00	8.70	14.70	15.20	14.90	18.65	15.05	16.30	15.30	14.20	15.98	21.35	15 00	27.30	19,50
SrO					2.15			3.60			12.10	16.80	•													
ZnO		2 0 5	1.85	2 00		2.00	2.00		2.05	0 60	1.90		14 60	1.95			100		•	2 00	I	2 02	5.10	1.95		
РьО														9.60												
La2O3	1988	7.50	7.30	7.90		8 00	8.10	13.70	8 20	6 55	7.65		5 20	L		16.25		7.95	6.60	8 10	ļ	8.07	8.30	7.90	5.10	6.60
Y2O3						•								3 60	14.85		3.70									
Gd2O3 Yb2O3																	9.99				9 20					
1,02	7.80	8.15	9.00	B.70	8.90	7.80	7.95	6.35	8 05	7 95	7.50	10.20	7.60		7.90	8.70			10.55	12.90		7 92	5.10	7.75	6 30	9.00
ZrO2	5.70		5.55	6 00		6.00	6.15		7.00		5.80	6 00	5.90		4.40	3.70		6 00		6.15	3.10		6.25 5.40	6 00		1.65
Nb2O5	3.70	6.85	6 00	6.35	7.50	6.55	6.75	6.15	6.80	5 95	6.55	6 60	6.25	5.75	6.30	3.85	12.50	9.70	2.60		6.75	6.45	3.40	6.40		2,60
WO3				ļ		[			<del>.</del>									9.70	12.85							12.85
Ta2O5 SnO2																						0.50				
total	100 00	100.00	100.00	100 00	100 00	100 00	100 00	100.00	100 00	100 00	100 00	100 00		100 00	100 00	100.00		100.00	99.90	100.00				100 00		100.00
nd	1.6990		1.6920			1.6977				1 7005		1.7075		1.7064	1.7044		1,7013			1.6990						
νd	40.50					39.20					40 00 3 30		38 50	37.10	3.18	3.27	40 50 3.19		37.90							
SG	3.30	3.14	3.12	3.16	3.02	3.13	1 317	3.29	3.17	3.12	3 30	3.29	3.20	3.23	3.76	3.21	3,73	3.22	3.10	3.72	<u> </u>	5.11	4.14			
Compariso	n of ci	ted refe	rence a	nd CIP	Amende	d Claim	-1 and	Addition	al Clair	n24																
Si+B+P	38 00		30.70	34 80	43.25	33.05	38.50	38.80	37.25	38.30	36 20	37.60	37.50	36.75	36.35	39.75	36,70	37.60	38.35	38.70	39.10	37.56	40 05	33.75 O	35 05 ×	38.35
31.6.1	×	×	C	0	×	Q	×	×	× .	_ <u>*</u>	×	×	- ×-	×	28.50	28,25	25 50	26.00	24.00	26 45	25.45	18 60	26.30	21.10	23 65	24.00
S.	34 BO	18.60	21.60	24 00 ×	25 55	22.80	21.60	29.50	25 80	25,80	25.00	26 00	26 15	25 40	28.nu	48.43	.49 DU.	20,00.	×	20 43	149.99.	.,a.yv.	20.30 .	1.4	×	×
T	37 08	28 80	27.85	28 95	23.30	28.35		29.10	30 05	26 55	2750	22 BO	24 95	22.30	33,45	32.50	27 75	34 00	32.60	27.15	20.95	29 00	25.05	28 05	24 45	32.70
Ti+La+Z++N b+la+W+Y	× ×	× ×		- × ×	× ×	× ×		****	×	*	×	×	*	×	×	×	×	×	×	×	×	*	×	×	×	
T;	7.80	8 15	9.00	8 70	8.90	7.80	7 95	6.35	8.05	795	7.50	10.20	7.60	7.15	7.90	8.70	3.95	9.75	10.55	12.90	11.10	7.92	5.10	7,75	6.30	9.00
	×	×	×	×	×	×	×	×	×	×	X	× ×	5 90	5.80	4.40	3.70	7.60	6.00	0.00	6.15	3 10	6 56	6.25	6.00	6.05	1.65
Zr	5,70	6.30 O	5.55 O	500	6.90 C	6.00	615	2.90 ×	7.00	6.10	5.80	600	0	0	× ***	3,70 ×	0	0	× 0.00	0	×	1 0	0	o	0	*
Mu+Ca+S	15 65	23.95	24 30	24 15	24.30	24.45	24.50	23.40	23 35	25.85	27 60	33.70	27.15	22 45	19,05	18.80	23.60	19.45	19.20	23.30	21.35	24.99	32,60	22.85	31.45	19.20
r+Ba+Zn		0	Ö	0	C	0	0	Ö	0	Ç	· 8	0	Ö	0	×	×	0	×	×	0	0	0	0	0	0	×
Na	0.70	3.15	000	12.10	0.00	3.00	2.30	2.90	3.10	3.10	2 90	3.00	590	300	4.45 ×	3.00	3 00	3 00 X	4,50	3 10	3.15	307	0 00	3 00	3.00 ×	4,50
	×	0.00	0.00	0.00	0.00	5.10	0 00	0.00	0.00	0 00	000	0.00	000	000	0.00	000	000	0.00	0.00	000	0.00	000	0.00	0.00	0.00	0.00
A)	0.00	0.00	U.00	0.00	0.00	0	× ×	) v.oo	V.00	×	×	×	×	×	×		×	×	×		×	×	_ ×_	×	×	×
	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9 60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Si+B+P	38 00	38 15	30.70	34 80	43.25	33.05	38.50	38.80	37.25	38.30	36 20	37.60	37.50	36.75	36.35	39.75	36,70	37.60	38.35	38.70	39.10	37.56	40.05	33.75	35.05	38.35
214845	×	×	0	0	×	Ó	×	×	×	×	×	×	×	×	×	×	×	×	_ ×	_ ×	×		× ,	_0_	*	
	34 80	18.60	21 60	24 00	25 55	22.80	21.60	29.50	25 80	25 80	25 00	26.00	26 15	25 40	28.60	28.25	25 50	26.00	24.00	26 45	25.45	18 50	26,30	21,10	23 65	24.00
Si	×	×	×	×	×	×	×	×	×	× 1	×	. ×	×	×	×	×		×	×	×	×	×	×	×	×	<u>×</u>
Ti+La+Z++N	37 08	2B 80	2785	28 95	23.30	28.35	28.95	29.10	30 05	26 55	27 50	22 80	24 95	22.30	33,45	32.50	27 75	34 00	32.60	27.15	20.95	29 00	25.05	28 05	24 45	32.70
b-1W-Y	×	×	×	×	×	×		× .	×	×	×	×	*	×	×	×	×	×	. *	×	×	×	_ ×	×	×	×
	7.80	8 15	9.00	8 70	8.90	7.80	7 95	6.35	8.05	795	7.50	10.20	7.60	7.15	7.90	8.70	3.95	9.75	10.55	12.90	11.10	7.92	5.10	7.75	6.30	9.00
14	×	Ι×.	l x i	*	×	×	×	l x	*		×	×	×	×	×	× .	×	×	Х	×	×	×	×	х.	×	×
	5.70	6.30	5.55	6 00	6.90	6 00	6 15	2.90	7.00	6.10	5.80	600	5 90	5.80	4.40	3.70	7.60	6.00	0.00	6.15	3 10	6 56	6.25	6.00	6.05	1.65
Zr	O	0	0	5	c	0	6	×	0	0	0	0	0	0_	×	x	0	0	×	0	×	0	0	0_	0	×
Mu+Ca+S	15 65	23.95	24 30	24 15	24 30	24.45	24.50	23 40	23 35	25.85	27 60	33.70	27.15	22 45	19.05	18.80	23.60	19.45	19.20	23.30	21.35	24.99	32,60	22.85	31.45	19.20
r+Ba+Zn	1				- C	0	0	O.	o	Ċ		o	Ö	0	×	× ×	0	×	×	0	0	0	0	0		×
	0.70	3.15	000	12.10	0.00	3.00	2.30	2.90	3,10	3.10	2 90	3.00	5 90	300	4.45	3.00	3 00	3 00	4,50	3 10	3.15	307	0.00	3 00	3.00	4.50
Na	3.00	*	× ×	× ×	× ×	*	× .	×	×	*		×	×	×	×	, x	×	×	×	×	×	×	×	×	×	×
	0.00	0.00	0.00	0.00	0.00	5.10	0 00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A)	0,00	0.00	0.00	0.00	1 *	0	× ×	×	*	×	×	×	×	×	*	×	×	×	, ×	×	×	×	×	×	×	×
	0.00	0.00	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00
Pb	0.00	× ×	,	1 0.00	1 2	2.00	×	×	×	× .	×	×	*	0	×	×	×	× :	×	×	×	*	×	×	×	×
<b></b>	2 07	1 15	0.00	0.00	9.15	1 45	1 10	1.40	1.50	1,50	140	2.90	0.00	1.40	0.00	1.45	1.45	1.45	0.70	0.75	1.50	2.22	2.30	1.45	1.45	0.70
L-20	1 2.07	1 :	0	100	0	0	0	2	()	0	0		l o	െ	10	0	0	0	0	10	C	×	×	0	0	0
<del></del>	3 75	6.20	5 45	585	5.00	5.95	6.50	0.00	14.25	0.50	5,70	5 90	3.85	5 80	3.85	3.90	5.95	4,40	2.90	6 00	7.15	6.99	6.15	5.90	6.95	2.90
MgO	3/3	0.20	1 33	1 75	1 75	0	0	4	0	, ,	6	5	5	0	0	0	l o	Ó	1 0	0	0	l c	0	_o_	0	
	·						_~																			

Compariso	n of cit	ed refe	rence a	d CIP	Amende	d Claim	-7and A	ddition	el Claim	31																
Si-B-P	38 00	38.15	30.70	34 80	43.25	33 05	38 50	38 80	37 25	38 30	36 20	37 60	37 50	36 75	36.35	39 75	36.70	37.60	38.35	38.70	39.10	37.56	40 05	33.75	35.05	38.35
31.8.6	^			1,2	×	- 5		×		×	×	×	ж	×	,			·	×		×					
Sı	34.80	18 60	21 60	24 00	25.55	22.80	21.60	29 50	25 80	25 80	25 00	26.00	26.15	25,40	28.60	28.25	25.50	26 00	24.00	26.45	.25.45	18 50	26.30	21.10	23.65	24.00
3	****	×	*	×	×	×	×		×	×	×_	×	×	×		. ×	×	_ ×	×	×	×	×	*			<u>×</u>
T.	7.80	8 15	9 00	8.70	8 90	7.80	7.95	6.35	8 05	7.95	7.50	10.20	7.60	7.15	7 90	8.70	3.95	9 75	10.55	12.90	11.10	7.92	5.10	7.75	6.30	9.00
1 " 1	×		,	×	×	. x	× .	× _		. *	*	×	х	×		×	_ <u>~</u> _		_ ×	×	×		×	_ ×	_ ×	×
	5.70	6.30	5.55	6.00	6.90	6.00	6 15	2.90	7.00	6.10	5 80	6.00	5.90	5 80	4 40	3.70	7.60	6.00	0.00	6.15	3.10	6.56	6.25	6.00	6.05	1,65
Zr	0	0	0	· 6	0	0	0	×	U	0	O	O_	Q	O	Х.	. ×			×	_ Q_	×	0		0	<u>_Q_</u>	×
Mg+Ca+S	15.65	23.95	24.30	24.15	24.30	24.45	24 50	23.40	23 35	25 85	2760	33 70	27.15	22 45	19.05	18.80	23.60	19.45	19.20	23.30	21.35	24.99	32.60	22.85	31,45	19.20
r+Ba+Zn	× .	~~~			O	0	i c	0	C	0	0	0	0	Ç		*	<u>_Q</u>			LQ_	o_	0	<u> </u>	0		×
	9 27	91	17.15	12.1	9.15	9 05	8 05	8.7	9.35	93	8.7	5.9	10.4	89	11,15	8.95	8.95	8.95	9.75	10.85	9.4	7 62	2,3	9	9 05	9.75
Li+Na+K	*	×	×	*	×	×	l ×	×	×	×	×	×	×	×	×	×	×	_ ×	×	_ ×	×		0	×_	. ×	. ×
	0.70	3.15	0.00	12,10	0.00	3 00	2 30	2,90	3 10	3.10	2.90	3 00	5.90	3 00	4.45	3.00	3.00	3.00	4.50	3.10	3.15	3 07	0.00	3.00	3.00	4,50
Na	× .	×	×	×		×		×		*		×		×	×	×	_ ×	×	×	×	×	_ ×		×	×	- ×
	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0 00	0.00	0 00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00	0.00	0.00	000	0.00
1A	×	×	×	× .	×	0	×	×	×	×	× .	_ ×	×	×	×	*	_ ×	×	×	×	×	, ×	×	×	×	×
	0.00	0.00	0.00	0 00	000	0.00	0 00	0.00	0.00	000	0.00	0.00	0.00	9.60	0 00	0.00	0.00	0.00	0.00	0 00	0.00	000	0.00	0.00	0.00	0.00
Рь	×	*		×	×	×	i .	×	×		× .	× .	×	0_	×	×	×	×	×	×	×	×	×	_ ×	. ×	. ×
	2 07	1,15	0.00	0.00	9,15	145	1.10	1.40	1.50	1,50	1.40	2.90	0.00	1.40	0.00	1,45	1.45	1.45	0.70	0.75	1.50	2.22	2.30	1.45	1,45	0.70
Li2O	×	1 6	0	6	0	0	10	0		0_	<u> </u>	_ ×	0	LQ.	0	<u> </u>		10	0	0	_و_ا	×	×	LO	. 0	ا يې
	3 75	6.20	5 45	585	5.00	5.95	6,50	0 00	14 25	0 50	5.70	5.90	3.85	5.80	3.85	3.90	5.95	4.40	2,90	6.00	7.15	6.99	6.15	5.90	6.95	2,90
MgO	ວັ	0	5	0	0	0	Ċ	_ ×	C	_ ×	Le.	1.5		_ <u> </u>		0	Lo.	<u> </u>	<u> </u>	0	10	LO.	0	<u> </u>	10	

	38.00	38 15	30 70	34 80	43 25	d Claim	38.50	38 80	37,25	38 30	36 20	37 60	37 50	36.75	36 35	39 75	36.70	37 60	38.35	38.70	39.10	37.56	40.05	33.75	35.05	38.35
Si+B+P	× ×	× ×			*	C	*	×	×	×	*	×	×	×	×		×		×	×	×	×	× '	<u>. O.</u>	×	× ×
-	34 80	18.60	21.60	24 00	25.55	22 80	21 60	29.50	25 80	25 80	25 00	26 00	26 15	25,40	28.50	28.25	25 50	26 00	24.00	26.45	.25.45	18.60	26 30	21.10	23.65	24.00
S:	× 1	×	×		×	× .		*	×	×	×	×	×	×			. ×	_ ×	×	×	. ×	×	×			
1-La-21-N	37 08	28 80	27.85	28 95	23 30	28 35	28 95	29 10	30 05	26.55	27.50	22 80	24.95	22.30	33,45	32.50	27.75	34 00	32.60	27.15	20.95	29 00	25 05	28.05	24.45	32.70
-1-W-T	× ×	****	×	*	×	× .	*	. *		×		×	×	×	×	_ ×	×	Х.	×	×	_ ×	×	_ <u>*</u> _	_ × _	- ×	- ×
	7.80	8,15	9 00	8.70	8.90	7 80	7 95	6 3 5	8 05	7 95	7.50	10.20	7.60	7.15	7,90	8.70	3.95	9.75	10,55	12.90	11.10	7.92	5.10	7.75	6.30	9.0
Ti	×	*	×	*	×		×	. *			×	×		*	×	×	. ×	_ × _	×		× .	_ ×	×	×	× .	L
Me+Ca+S	15 65	23.95	24.30	24.15	24 30	24 45	24.50	23 40	23 35	25 85	27 60	33 70	27.15	22.45	19.05	18.80	23.60	19.45	19.20	23.30	21.35	24.99	32.60	22.85	31.45	19.20
··Ba·Zn	*	C	0	0	T.C.	C	· O.	0	. 0	C	Q.,	.0.	. 9	<u> </u>	×			×		<u></u>	<u> </u>	<u> </u>	<u> </u>	, o		×
	9 27	91	17.15	12.1	9.15	9 05	8.05	87	9.35	93	8.7	59	104	89	11.15	8.95	8 95	8.95	9.75	1085	94	7 62	2.3	9	9.05	9.75
L+Na+K	×	*	×		×	×	*	×	× .	×	×	× .	×	×	. ×	×	×	×	× .	×	- ×-	× ×	000	- ×		×
	0.70	3 15	0.00	12.10	0 00	3 00	2.30	2,90	3 10	3.10	2.90	3.00	5.90	3.00	4.45	3.00	3 00	300	4,50	3.10	3.15	307	0.00	3 00	3.00	4,50
Na	×		×	×	× :	×	×	×	×	. *	×	×	×	×	×	×	×	× .	×	<u>*</u>	- ×		×		22.50	16.30
	11.90	15.70	17 00	16.30	14.90	16.50	16 00	19.80	7 05	24.75	7.90	11.00	8,70	14,70	15.20	14.90	16 65	15.05	16.30	15.30	14.20	15.98	21.35	15.00	24.50	18.30
Ca				()	1 6			17.	(1)	1 :5			0		l o		10	10:		10	10	10		0	_ U	0

Comparis	en et	f cite	d refe	ence e	nd CIP	Amende	d Claim	-23																		25.05	30.00
$\overline{}$	38	no I	38 15	30.70	34 80	43 25	33.05	38 50	38 60	37.25	38 30	36 20	37 60	37.50	36.75	36 35	39.75	36.70	37.60	38.35	38,70	39.10	37.56	40 05	33.75	35 05	38.35
Si+B+P	1	7-1	× ×	O	0	×	0	×	*	×	×	×	×	×	×	×	×	×	×	×		_ ×	×	**	<u> </u>	****	
_	34	an	18 60	21 60	24 00	25.55	22 80	21.60	29.50	25 80	25 80	25 00	26 00	26.15	25.40	28.60	28.25	25.50	25.00	24.00	26.45	25.45	18.60	26.30	21,10	23.65	24.00
Si	١.					× ×	×	×	* * * ·	×	,×	×	×	×	×		×	×	_ ×	×	×	×	×	×	× .	_ ×_	×
<del></del>	37	700	28 80	27.85	28.95	23.30	28 35	28 95	29.10	30 05	26 55	27 50	22.80	24.95	22.30	33 45	32.50	27.75	34 00	32.60	27,15	20 95	29 00	25 05	28.05	24.45	32.70
TirLa-Zr-I		.ºº.+	20,00	71.00	.Augus	- AUG.	x	×	× ×	******	× ×	×	×	×	×		*	×	×	×	×	×	×	_ ×	_ ×	×	х
80,180,000		BO	8.15	9 00	8.70	8 90	7.80	7.95	6 35	8 05	7.95	7.50	10.20	7.60	7.15	7,90	8,70	3.95	9.75	10.55	12.90	11.10	7.92	5.10	7.75	6.30	9.00
Ti	1 '	.E0	0.10	9.00	1 5.70	1 333	7.00	, , ,	× ×	×	*	.,	×	×	×	×	× -	×	×	×	×	×	×	×	×	×	_ ×
h	1-2				24.15	24.30	24 45	24 50	22.40	23 35	25.85	27.60	33 70	27 15	22 45	19.05	18.80	23.60	19.45	19.20	23.30	21.35	24.99	32.60	22.85	31,45	19.20
Mg+Ca+		50 J	23.95	24.30	1.53.13.	-4.					1.12.02		- 55.75	- 6	7		× ×	T-0	T ×	×	0	0	0	0	0	0_	×
r+Ba+2r		<u>`-</u>	- (2	<u> </u>	<del>-2-</del>	9 15	9.05	8 05	- <del></del>	9.35	9.3		59	10.4	8.9	11,15	8.95	8.95	8 95	9.75	10.85	9.4	7.62	2.3	9	9 05	9.75
Li+Na+K	9.2	?7	9.1	17,15	12.1	9.13	303	8.03	′°	9.33	9.3		3.5	1 ,5.	""	1	**	× ×	- ×	×	×	×	l ×	0	× .	×	×
-	12	_	×	×	×	000	100	- × -	2 90	310	3,10	2.90	300	590	3.00	4 45	3.00	3.00	300	4.50	3,10	3.15	3 07	0.00	300	3.00	4,50
Na	0	.70	3.15	0.00	12.10	000	300	2.30	2.30	3.10	3.10	2.90	3,00	3.50	1 3.00	1 37	1		1 ×		×	×	x			×	×
		•	×	_ ×_	_ <u>*</u> _	L.×.	×	×	<u>*</u> _		×	- <del>*</del>		8.70	14.70	15.20	14.90	16 65	15.05	16.30	15 30	14 20	15.98	21.35	1500	24 50	16.30
Ca	311.	.90	15,70	17.00	16.30	14.90	16.50	16.00	19.80	7 05	24.75	7,90	11,00	1 8.70	14.70	13.20	17.30	100	1 0	0	0	0	10	10	0	0	0
∟.	L	. 1	Ú	<u> </u>	<u> </u>	<u> </u>	ين	<u> </u>	_ C_	<u> </u>	<u> </u>	1.52		1 5	<u> </u>	<u> </u>	<u> </u>	<u>,                                    </u>									ليستنسا